

Date: Fri, 15 Apr 94 04:30:02 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
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Precedence: Bulk
Subject: Info-Hams Digest V94 #418
To: Info-Hams

Info-Hams Digest Fri, 15 Apr 94 Volume 94 : Issue 418

Today's Topics:

Daily Summary of Solar Geophysical Activity for 11 April

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We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 13 Apr 1994 23:12:04 MDT
From: galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!eff!
news.kei.com!yeshua.marcam.com!zip.eecs.umich.edu!newsxfer.itd.umich.edu!
nntp.cs.ubc.ca!alberta@ihnp4.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 11 April
To: info-hams@ucsd.edu

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

11 APRIL, 1994

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 11 APRIL, 1994

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!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 101, 04/11/94
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10.7 FLUX=074.3 90-AVG=095 SSN=015 BKI=3565 3334 BAI=032
 BGND-XRAY=A1.4 FLU1=1.4E+06 FLU10=9.7E+03 PKI=4665 4334 PAI=039
 BOU-DEV=032,099,130,088,021,029,035,067 DEV-AVG=062 NT SWF=00:000
 XRAY-MAX= B1.0 @ 0528UT XRAY-MIN= A1.0 @ 2101UT XRAY-AVG= A3.8
 NEUTN-MAX= +003% @ 0640UT NEUTN-MIN= -002% @ 0510UT NEUTN-AVG= +0.4%
 PCA-MAX= +0.1DB @ 2345UT PCA-MIN= -0.3DB @ 2205UT PCA-AVG= +0.0DB
 BOUTF-MAX=55364NT @ 2226UT BOUTF-MIN=55294NT @ 0902UT BOUTF-AVG=55327NT
 GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+067,+000,+000
 GOES6-MAX=P:+125NT@ 1613UT GOES6-MIN=N:-114NT@ 0648UT G6-AVG=+086,+030,-053
 FLUXFCST=STD:115,115,110;SESC:115,115,110 BAI/PAI-FCST=020,020,015/025,020,015
 KFCST=3445 5333 3344 5333 27DAY-AP=042,018 27DAY-KP=5655 5544 4343 3433
 WARNINGS=*GSTRM;*AURMIDWRN
 ALERTS=**MINSTRM
 !!END-DATA!!

NOTE: The Effective Sunspot Number for 10 APR 94 was 12.0.
 The Full Kp Indices for 10 APR 94 are: 5- 5- 4- 5- 5o 4- 3+ 4-
 The 3-Hr Ap Indices for 10 APR 94 are: 44 38 25 39 51 23 17 25
 Greater than 2 MeV Electron Fluence for 11 APR is: 9.6E+08

SYNOPSIS OF ACTIVITY

Solar activity was very low. Region 7700 (N10E34)
 evolved to be a stacked bipole, but has been quiet. New spots
 may be emerging in the western hemisphere near N18W40.

Solar activity forecast: solar activity is expected to be
 very low.

The geomagnetic field has varied from unsettled to major
 storm levels, with the most disturbed periods occurring
 during local nighttime hours. This lingering disturbance is
 thought to be due to high speed solar wind emanating from
 the southern polar crown coronal hole. The greater than 2 MeV
 electron fluence is again at very high levels.

Geophysical activity forecast: the geomagnetic field is
 expected to be mostly active for the next 48 hours, with
 intervals of minor to major storming at night. April 14 should
 see predominantly unsettled conditions.

Event probabilities 12 apr-14 apr

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01

PCAF Green

Geomagnetic activity probabilities 12 apr-14 apr

A. Middle Latitudes

Active	35/35/25
Minor Storm	25/25/10
Major-Severe Storm	10/10/05

B. High Latitudes

Active	40/40/30
Minor Storm	30/30/20
Major-Severe Storm	15/15/10

HF propagation conditions continued well below normal.
Improvements are now not expected until 13 or 14 April over the
upper-middle to polar latitudes, but should begin recovering over the
lower latitude regions over the next 24 to 48 hours.

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 11/2400Z APRIL

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
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7700	N09E34	202	0030	CSO	05	005	BETA	
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REGIONS DUE TO RETURN 12 APRIL TO 14 APRIL

NMBR	LAT	LO
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NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 11 APRIL, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
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NONE

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 11 APRIL, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
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NO EVENTS OBSERVED

INFERRED CORONAL HOLES. LOCATIONS VALID AT 11/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
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76 S24E61 S24E61 S07E31 N13E53 185 ISO POS 014 10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
10 Apr:	1120	1124	1131		SF	7700	N10E55			
	1228	1231	1237	B1.8						
	1511	1525	1529	B5.8	SF	7700	N11E52			
	1541	1543	1548		SF	7700	N10E52			
	1634	1638	1647	B4.2						
	1935	1939	1941	B2.2	SF	7700	N11E51			
	2109	2112	2117	B1.0	SF	7700	N10E50			

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7700:	0	0	0	5	0	0	0	0	005	(71.4)
Uncorrelated:	0	0	0	0	0	0	0	0	002	(28.6)

Total Events: 007 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
NO EVENTS OBSERVED.								

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep

V = Type V Sweep
Continuum = Continuum Radio Event
Loop = Loop Prominence System,
Spray = Limb Spray,
Surge = Bright Limb Surge,
EPL = Eruptive Prominence on the Limb.

** End of Daily Report **

End of Info-Hams Digest V94 #418
